

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (Canceled)

Claims 9-12 (Canceled)

Claim 13 (New): Apparatus for constructing an immobilized a cDNA library on a support comprising:

- a. liquid feeding means for feeding at least one reaction solution to a container;
- b. a switch for controlling the flow of a plurality of reaction solutions;
- c. nozzle driving means for driving a nozzle for introducing or removing test material in a front-rear and right-left direction in a plane and an up-down direction;
- d. solution temperature controlling means for heating and cooling reaction solutions in the container;
- e. a test material container holding means for holding containers into which each test material or solution is set for constructing an immobilized DNA library on the supports;
- f. test material container temperature control means
~~for maintaining the test material container~~
holding means at a predetermined temperature; and

g. means for cleaning and eluting DNA and a waste solution tank.

Claim 14 (New): The apparatus according to claim 13 wherein the container holding means holds 96 test material containers.

Claim 15 (New): The apparatus according to claim 13 wherein the container holding means and the test material container holding means comprises an aluminum block.

Claim 16 (New): The apparatus according to claim 13 wherein the supports for constructing a cDNA library are of a plate shape, a ball shape, a cube shape, and a grain shape.

Claim 17 (New): A process for constructing an original support on which a cDNA library is immobilized and replicas of the original support comprising:

- a.** chemically modifying a number of supports with respect to oligo dT;
- b.** inserting the supports into containers;
- c.** inserting the containers into container holding means;
- d.** adding to the supports a reaction solution containing purified RNA solution, reverse transcriptase enzyme solution, and a nucleotide by feeding purified RNA solution through a liquid feeding means controlled by a liquid feeding

switch, after a predetermined time at a temperature equal to or lower than the predetermined temperature, switching the liquid feeding switch means to reverse transcriptase enzyme solution to add reverse transcriptase solution, and adding test material from a container and setting the temperature of the container holding means at a predetermined temperature to construct cDNA from mRNA;

- e. setting the temperature of the container holding means to a temperature equal to or lower than the predetermined temperature, shifting the liquid feeding switch means to a waste liquid tank to discharge reaction solution in the container to a waste liquid tank;
- f. shifting the liquid feeding switch means to a solution of tris-ethylenediaminetetraacetic acid;
- g. heating the container holding means to a predetermined temperature so as to hybridize mRNA;
- h. shifting the liquid feeding switch means to a container for temporarily preserving mRNA;
- i. moving dehybridized mRNA solution to a second container for temporarily preserving mRNA by driving the liquid feeding means.

Claim 18 (New): The method according to claim 17
for constructing replica supports comprising using
dehybridized mRNA comprising

providing a support and dehybridized mRNA in a
container by reversibly driving the liquid feeding
means.

Claim 19 (New): A method for producing an original
support of gDNA library and replica supports comprising:

- a. providing a first support onto which chemically
modified oligo nucleotide sense portion having a
restrictive enzyme portion whereby the
oligonucleotide is hybridized and treated with a
restrictive enzyme so as to prepare a complete
restricted enzyme portion;
- b. setting the first support into a first container;
- c. setting replica supports having restrictive enzyme
portions into containers;
- d. adding to each container reaction solution by
successively adding to each container purified
gDNA library solution treated with restrictive
enzyme, DNA ligase solution, DNA polymerase
solution, and nucleotide;

- e. maintaining the containers at a predetermined temperature for a predetermined time so as to immobilize a gDNA library on each support;
- f. cleaning each container with a solution of tris-ethylenediaminetetraacetic acid;
- g. temporarily preserving anti-sense portion of a gDNA library from each support.

Claim 20 (New): The method according to claim 19 further producing replicas comprising adding temporarily preserved anti-sense portion of a gDNA library to each container containing a support.